20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this mapifest except as noted in Item 19

Day

DO NOT WRITE BELOW THIS LINE.

Yellow:

DTSC 8022A (7/92) EPA 8700-22

Z

TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS. (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

See Instructions on back of page 6.

Department of Toxic Substances Control

riease	print or type. Form designed for use on elite (12-pitch) typewriter.		Sacramento, California
		EPA ID No. Manifest Document No.	Page 1 Information in the shaded areas is not required by Federal law. of 7
5	3. Generator's Name and Mailing Address Douglas Aircraft Company Attn: R. 19503 S. Normandie Avenue, Torranc	Tuell M/S C6-59	Wainfest Document Number 32745359
k-700-000-1	4. Generator's Phone (310) 5. 7926 or (310) 5. Transporter 1 Company Name (310)	533-7231 H 6. US EPA ID Number C. Strite	1 H Q 3 6 O Q 5 6 9 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Laidlaw Environmental Svs. C 7. Transporter 2 Company Name	. A D O O O O B 3 I 2 I	orter's Phone (310) 518-4700
1 .	9. Designated Facility Name and Site Address 1		orter's Phone
CINIO III	Appropriate Technologies, Inc. 1700 Maxwell Road	H. Foelby	Phone S Phone
	Chula Vista, CA 92011 11. US DOT Description (including Proper Shipping Name, Hazard C	No. lype	13. Total 14. Unit Quantity Wt/Vol 1. Waste Number
G	RQ: Waste, Oxidizing substances, s N.O.S. (potassium nitrate, potassi S. UN3085, PG III. (D001)	erm breedrage end do \ Cd	0 4 3 1 0 P 580Ter
RATO	15-43		State EPA/Other
A T O	c		State
K LEINIEN	d.		EPA/Other
	L Additional Descriptions for Materials Listed Above	K. Handlin	g Codes for Wastes Listed Above.
	a)Profile # 38420. Waste Kolene fr	THE RESERVE OF THE PROPERTY OF	B. B
	15. Special Handling Instructions and Additional Information Emergency Response Telephone Number	r (800) 424-0300 (Chomtuse)	
	DOT ERG # 42.	(000) 424-3300 (Chemerec).	
	GENERATOR'S CERTIFICATION: I hereby declare that the control packed, marked, and labeled, and are in all respects in proper control packed.	ents of the consignment are fully and accurately described ondition for transport by highway according to applicable	above by proper shipping name and are classified, federal, state and international laws.
	If I am a large quantity generator, I certify that I have a prog economically practicable and that I have selected the practicable threat to human health and the environment; OR, if I am a sma waste management method that is available to me and that I can	e method of treatment, storage, or disposal currently avai ill quantity generator, I have made a good faith effort to	lable to me which minimizes the present and future
- TR42	Printed/Typed Name Robert G. Tuell Jr. 17. Transporter 1 Acknowledgement of Receipt of Materials	Signature Robert B. Jud	V, G. 10189
	Printed/Typed Name Bast Gardner	Signature Let 1. Such	Month Day Ye
RTER	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Month Day Ye
	19. Discrepancy Indication Space		
L	20. Facility Owner or Operator Certification of receipt of hazardous		19.
T Y	Printed/Typed Name	Signature	Month Day Yea

DO NOT WRITE BELOW THIS LINE.

APPROPRIATE TECHNOLOGIES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION

INSTRUCTIONS: Complete Part I. Check and complete Part II or Part III. Complete and sign Part IV. You need only return pages 1-3 unless instructed to also return Attachment I and/or II as indicated on page 1. Do not return Attachment 3. PART I: Generator Profile and Manifest Information Manifest #: Profile Number:__ EPA Waste Codes (list ALL codes for this stream and all relevant subcategories — see page 2 of this form): This stream is (check one) a ____wastewater (<1% total organic carbon and <1% total suspended solids) ____nonwastewater. Some exceptions exist to this definition, please consult your Greenfield Customer Service Representative for details. PART II: Wastes Subject to Land Disposal Restrictions (If the waste is non-RCRA, non-hazardous or a "newly listed waste" identified in Part III below, complete Part III rather than Part II.) Pursuant to 40 CFR 268.7, I am notifying Appropriate Technologies, Inc. that under the above profile number and manifest number, I am shipping to you a waste identified by the EPA waste code(s) and subcategory(ies) listed in Part I above, which is subject to the EPA Land Disposal Restrictions, as checked below. Check line 1, 2, 3 and / or 4 as applicable 1. Treatment standards, as I have indicated in Attachment I, which I am enclosing for __F001:__ F002:__ F003:__ F004: 2. Numerical treatment standard(s) specified in 40 CFR 268.41(a) (Table CCWE), per Attachment III. 3. Treatment standard(s) expressed as specified technology(ies) in 40 CFR 268.42(a), for which the required technology, per Attachment III, is _____INCIN: _____DEACT: _____ADGAS fb NEUTR: _____IMERC: ____STABL: RTHRM: ____RMERC: ____RLEAD: ____NLDBR. 4. Numerical treatment standard(s) specified in 40 CFR 268.43(a) (Table CCW), per Attachment III. Also check one or more of the following lines as applicable. 5. A D001-D011 waste which (a) ______does (b) _____does not meet the definition of a "California List" waste (see definition below), If (a), I have also checked the "California List" section of Attachment I, which I am enclosing. the enclosed Attachment II. The waste (a) does (b) does not meet the definition of a "California List" waste (see definition below). If (a), I have also checked the "California List" section of Attachment I, which I am enclosing. 7. A nickel, thallium, or HOC "California List" waste (see definition below). I have checked the "California List" section of Attachment I, which I am enclosing. 8. A specific extension or variance (other than a "capacity variance"), as I have checked on Line E or F of Attachment II, 9. The waste already meets all relevant treatment standards. I have signed the required certification page of Attachment II, which I am enclosing. PART III: Wastes currently NOT subject to Land Disposal Restrictions Pursuant to 40 CFR 268.7, I am notifying Appropriate Technologies, Inc. that, under the above profile number and manifest number, I am shipping to you a waste which is non-RCRA, non-hazardous, or identified by the EPA waste code(s) listed in Part I above. The waste is not currently subject to EPA Land Disposal Restrictions because the waste is non-RCRA, nonhazardous, or consists only of one or more of the following EPA waste codes listed since November 8, 1984; D018-43, K064-66, K088, K090-91, K117-18, K123-26, K131-32, K136, U328, U353, U359. PART IV: Authorized Representative Print or Type Name: NOTE: A "California List" waste is (a) a hazardous waste containing Halogenated Organic Compounds (HOC) at a concentration ≥ 1000 mg/kg

or mg/1, or (b) a liquid hazardous waste (including free liquids) having a pH \leq 2.0 and/or containing any of the following materials at a concentration \geq that specified: PCBs, 50 ppm; or (in mg/1) free cyanides, 1000; As, 500; Cd, 100; Cr, 500; Pb, 500; Hg, 20; Ni, 134; Se, 100; Tl, 130.

TREATMENT SUBCATEGORIES

EPA WASTE		
CODE D001	SUBCATEGORIES Ignitable liquids ≥ 10% TOC Ignitable liquids < 10% TOC Ignitable compressed gases Ignitable reactives	COMMENT Per 261.21 (a)(1) Per 261.21 (a)(1) Per 261.21 (a)(3) Per 261.21 (a)(2)
	Oxidizer	Per 261.21 (a)(4)
D002	Steel corrosives Alkaline Acid	SAE 1020 steel corrosion rate ≥ 0.25 inch/year Per 262.22 (a)(l) Per 262.22 (a)(l)
D003	Explosives Water reactives Reactive sulfides Reactive cyanides Other reactives	Per 261.23 (a)(6), (7), (8) Per 261.23 (a)(2), (3), (4) Per 261.23 (a)(5) Per 261.23 (a)(1), (4) Per 261.23 (a)(1)
D006	Cadmium-containing batteries Other	
10008	Lead acid batteries Other	
D009	Low mercury High mercury High mercury, containing organics	<260 mg/kg Hg ≥ 260 mg/kg Hg
	(not incinerator residues) High mercury, containing inorganics	≥ 260 mg/kg Hg
	(including incinerator or RMERC residues)	≥ 260 mg/kg Hg
F001-F005(WW)	Pharmaceutical Non-Pharmaceutical	
K006(NWW)	Anhydrous Hydrated	
K046	Reactive Non-Reactive	
7-025	Light ends Spent filters / aids & dessicants	
K061(NWW)	Low Zinc High Zinc	< 15% total zinc ≥ 15% total zinc
K069(NWW)	Calcium sulfate Non-calcium sulfate	
K071	Low mercury High mercury	<16 mg/kg Hg ≥ 16 mg/kg Hg
K106	Low mercury High mercury	< 260 mg/kg Hg ≥ 260 mg/kg Hg
P065	Low mercury — residues from RMERC Low mercury — residues from incineration Mercury fulminate, High mercury — incinerator or RMERC residues Mercury fulminate, nonwastewaters	Original P065 < 260 mg/kg Hg Original P065 < 260 mg/kg Hg ≥ 260 mg/kg Hg
	not incinerator or RMERC residues	
P092	Low mercury — residues from RMERC Low mercury — residues from incineration	Original P092 < 260 mg/kg Hg Original P092 < 260 mg/kg Hg
	Phenyl mercury acetate, high mercury incinerator or RMERC residues Phenyl mercury acetate, nonwastwaters not incincerator or RMERC residues	≥ 260 mg/kg
	High Mercury Low mercury — residues from RMERC Low mecury — residues from incineration	≥ 260 mg/kg Hg Original U151 < 260 mg/kg Hg < 260 mg/kg Hg

NOTE: TOC = total organic carbon: RMERC = mercury retorting: WW = wastewater: NWW = non-wastewater

APPROPRIATE TECHNOLOGIES, INC. CALIFORNIA LAND DISPOSAL RESTRICTION NOTIFICATION

PART I:	Generator	Information.				
GENERATO	R NAME	Douglas A	rivate C	, O		
_CA	0086510	ioar	92	745359	45359 _	38420
	EPA ID #		N	IANIFEST #		PROFILE #
		the above referenced tions of CCR, Title			ia waste numb	er(s) identified below is subject to
PART II:	Waste I	dentification.				
		s. (More than one l	ine may apply.)	, 		
_> 1.1	RCRA regulate	d waste			•	
	•	tal-containing aqueo	ous waste identi	fied on CCR, Title	22, 67 7 02(b) (1).
3. 1	PCB wastes ide	ntified in CCR, Titl	le 22, 67702(b)	(2). (Not acceptable	e at APTEC)	
		etal-containing solid ective date May 8, 19		l in CCR, Title 22,	67702(b) (7).	
:	8080, 8140, 815	neous and liquid was 0, 8240, and/or 8270 R, Title 22, 67702 (1	0. Prohibition e			y EPA Test Methods
		id waste containing a lor 8270. Prohibition				ethods 8080, 8140, itle 22, 67702 (b)(11).)
` (RA, California regul tors, and household				
PART III:	Handlir	g Method.		•	- M	
Check the a	appropriate line	s. (More than one li	ine may apply.)			
<u></u>	The RCRA was	te identified above r	must be handled	l in accordance with	the attached	EPA LAND DISPOSAL
<u> </u>	RESTRICTION	NOTIFICATION.	•			
	The waste ident 30, Article 41.	ified above must be	treated to mee	t the applicable stan	dards in CCR	, Title 22, Division 4, Chapter
		ified above meets th				
· 1 S i	testing or throustandards specific true, accurate	gh knowledge of the fied in CCR Title 22	e waste to support of the waste to support of the waste that the waste to support of the waste that the waste that the waste the waste the waste the waste that the waste t	ort this certification Chapter 30, Article 4 ere are significant p	that the waste	the waste through analysis and complies with the treatment at the information I submitted bmitting a false certification,
		tified above is subjection above.	ct to a variance	. The expiration date	e of the varian	ice is indicated in the WASTE
5. 7	The Non-RCRA	waste identified ab	ove is not curr	ently restricted from	land disposal	•
PART IV:	General	or Certification.				
		ormation supplied ab issions or errors exi		ssociated documents	s is true, comp	lete and accurate to the best of my
Signature >	Robert	G. Tuelly	?		Date:>	10-18-93
Print or Typ	pe Name: 🔀	Robert	G. Tu	ell, Jr.	-	
Title:	Senior	Plant	Engine			
			Par	ge 3 of 3		

ATTACHMENT I

ADDITIONAL NOTIFICATION FOR F001-F005, AND CALIFORNIA LIST WASTES

For Part II, Line 1 of the LDR Notification (F001-F005)

* Treat to below California List concentration, or to non-liquid form.

F001	F002	F003 F004	F005				
			* * * * * * * * * * * * * * * * * * * *				
:		REGULATED HAZARDOUS		WASTEWATERS CONCENTRATION			ASTEWATERS ENTRATION
WASTE CODE		CONSTITUENT		(mg/l)			(mg/1)
		Т А В	LE CCWE				
		-		and the second s			
F001-F005				0.04			
spent solvents		Acetone		0.05			0.59
		n-Butyl alcohol Carbon disulfide		5.0		٠	5.0
•		Carbon distinde Carbon tetrachloride		1.05 0.05			4.81 0.96
		Chlorobenzene		0.15			0.90
		Cresols (and cresylic acid)		2.82	•		0.75
		Cyclohexanone		0.125			0.75
		1,2 — Dichlorobenzene	q.	0.65			0.125
		Ethyl acetate		0.05			0.75
		Ethyl benzene		0.05			0.053
		Ethyl ether		0.05			0.75
		Isobutanol		5.0			5.0
		Methanol		0.25			0.75
		Methylene chloride Methyl ethyl ketone		0.2 0.05			0.96
		Methyl isobutyl ketone		0.05			0.76 0.33
	*	Nitrobenzene		0.66			0.33
		Pyridine		1.12			0.125
		Tetrachloroethylene		0.079			0.05
		Toluene	•	1.12			0.33
		1,1,1, — Trichlorethane		1.05			0.41
		1,1,2, — Trichloro-		1.00			0. 12
		1,2,2, — Trifluorethane		1.05			0.96
		Trichloroethylene		0.062			0.091
		Trichlorofluoromethane		0.05			0.96
		Xylene		0.05			0.15
		TAF	BLE CCW			*	
				· · · · · · · · · · · · · · · · · · ·			****
F001-F005							
spent solvents		1,1,2, Trichloroethane		0.030			7.80
		Benzene		0.070			3.70
F001-F005		Methylene chloride		0.44			NA
spent solvents							
(Pharmeceutical		* * *					
Industry Wastewater							
Subcategory)				REQUIRE	D M	ת עד ידי ידי	D
				REQUIRE	J LO LVA		<u> </u>
F005		2-Nitropropane		INCIN	•		INCIN
F005		2-Ethoxyethanol		INCIN			
F003		2-Euroxyeuranor		INCIN			INCIN
		(6) 116	T • A				
For Part II, Line 5,	<u>6, or 7</u> of the	LDR Notification (California	a List)				
				•			
This waste must be tre	ated as indicat	ed below if it is (a) a D001, D002, I	0003, D004, D00	5, D006, D007, D008, D009, D	0 10, D011	, or subjec	t to a "capacity
variance" — and mee	ts the definition	n of a "California List" waste; or	(b) a liquid hazan	dous waste \geq 50 ppm PCBs, or	г≥ 134	mg/l Ni,	or $\geq 130 \text{ mg/1}$
T1. Check the approp	riate line belo	w:					
HOC ≥ 1000	ppm: incinera	te					
		inerate (Not acceptable at APTEC)				
liquid, pH ≤ :	2: Neutralize		•				
liquid, free cys	$nides \ge 1000$) ppm: *					
$_{}$ liquid, As ≥ 5	00 mg/l: *						
liquid, Cd ≥	OO mg/l: *						
uaud. Cr≥ 5	00 mg/l: *						
12 miles 70k = 4							
liquid, Pb ≥ 5	00 mg/1: *		•				•
	20 mg/1: *		•				•
$_{}$ liquid, Pb ≥ 3	20 mg/1: * 34 mg/1: *						•

Attachment I

ATTACHMENT II EXTENSIONS, VARIANCES, EXCEPTIONS

ror I	rart 11, Line b-0 of the Nothication Form I his waste is (check one):
	A. Soil or debris contaminated with waste specified in 268.34 for which the treatment standard is based on incineration per Attachment III variance valid until June 8, 1991.
	B. Soil or debris contaminated with wastes specified in 268.35 for which the treatment standard is based on incineration, mercury retorting, vitrification or wet-air oxidation, per Attachment III (variance valid until May 8, 1992).
	C. A waste specified in 268.35 (a) — per Attachment IIINWWWW
	D. A waste specified in 268.35 (c) — per Attachment III — (variance valid until May 8, 1992)NWWWW. NOTE: NWW = Nonwastewater and WW = Wastewater.
For I	Part II, Line B-8 of the Notification Form. This waste is:
	E. Subject to a case-by-case extension, pursuant to 40 CFR 268.5, granted byonon
	F. Subject to a treatability variance, pursuant to 40 CFR 268.44, granted byonon
For g	enerators or treaters who have checked Part II, Line B-9 of the Notification Form:
Instru also ci	uctions: Check Line 1, 2, or 3 below. If checking Line 1 or 2 below, attach supporting analytical results. If checking Line 2, and if appropriate heck Line 4. Sign and date below.
1.	For generators who have determined that their waste meets treatment standards (268.7(a)(2)(ii):
	I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
2.	For treatment facilities which have treated the waste so that it meets the required numerical treatment standards (268.7(b)(5)(i):
	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. If the certification in Line 2 above is based in whole or part on the "analytical detection limit alternative" (268.3(c), check the following certification.
3.	I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater (NWW) organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart 0 or Part 265 Subpart 0, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. For treatment facilities which have treated the waste with the required treatment technology specified in 268.42 (certification per 268.7(b)(5)(ii):
AUTH	_I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. ORIZED REPRESENTATIVE
	Date
Print o	r Type Name
Tiela.	

WEIGHT TICKET	TRUCK #: 16070 Environmental sus. TRUCK #: 16070	DATE: 10/18/93 HET 4310 P. CONTENTS: Potosion whate Potosion Physician Physician Physician Property.	DISPOSAL FACILITY: DRIVER: Bat Learline	STATE MANIFEST, DOCUMENT NUMBER: 92745359

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DR67171	9-24-93	395	
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DRO7099:	9-23-93	410	
DR07214	10-0-93	405	•
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Laidlaw Environmental Services of California, Inc.

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JOB NO			
DATE	10/14/93	es e	-

TRANSPORTATION SERVICE ORDER

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